

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): In a communications system including a central communications station and at least one remote communications station, said central communications station having an antenna array for generating an antenna beam pattern used for transmission of information signals received by said remote communications station, a method for adaptively forming said beam pattern comprising the steps of:

statistically characterizing a receive channel vector, said receive channel vector being representative of a receive communications channel over which signal energy is transmitted from said at least one said remote communications station to said central communications station;

generating a beam pattern weight vector based on results of statistical characterization of said receive channel vector, said beam pattern weight vector being generated in accordance with a predetermined quality measurement of said information signals received by said remote communications station; and

forming said beam pattern using said beam pattern weight vector.

Claim 2-30 (canceled)